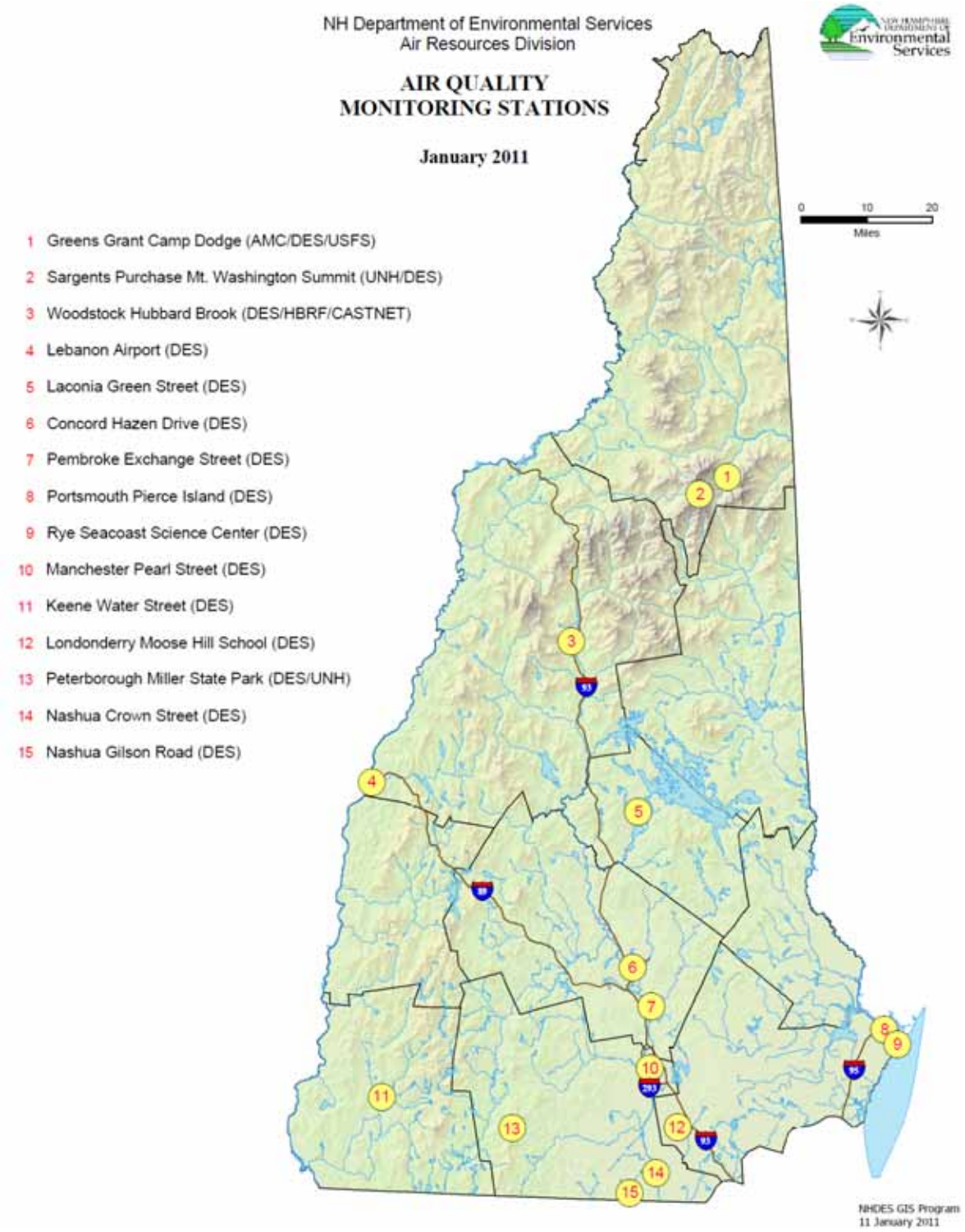
Part 2: Individual Station Information



Camp Dodge, Green's Grant

General Information			
AQS ID:	33-007-4002	Latitude:	44.308119
Town:	Green's Grant	Longitude:	-71.217658
Address:	Route 16	Elevation (m):	335
County:	Coos	Year Est.:	1995
Spatial Scale:	Regional		

Site Description

This air monitoring station is located in a rural forested area off Route 16 in Green's Grant. This wood clad, stick built shelter is approximately 7' wide by 10' long. This station is representative of a Class 1 Type Airshed. DES operates this station in cooperation with the Appalachian Mountain Club and the US Forest Service.

Pollutants/Parameters

Ozone – IMPROVE. The US Forest Service operates the IMPROVE sampler.

Recent Changes

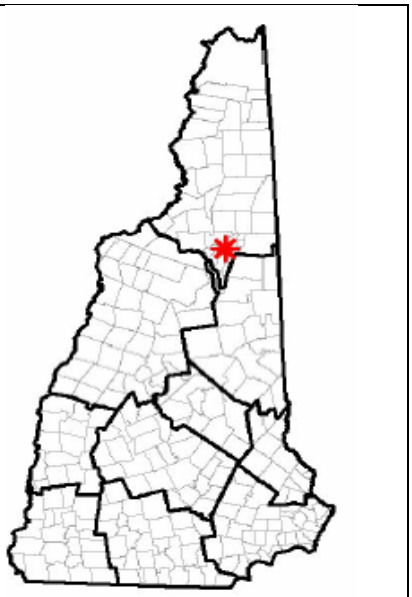
DES did not make any significant changes to this station during this review period.

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Mt. Washington Summit

General Information			
AQS ID:	33-007-4001	Latitude:	44.270086
Town:	Sargents Purchase	Longitude:	-71.303844
		Elevation (m):	1,917
Address:	Observatory	Year Est.:	1990
County:	Coos		
Spatial Scale:	Regional		



Site Description

This air monitoring station is located at the top of Mt. Washington in the Yankee Building.

Pollutants/Parameters

Ozone

Recent Changes

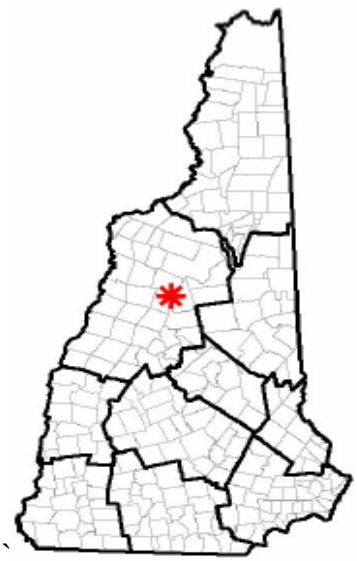
DES did not make any significant changes to this station during this review period.

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Hubbard Brook, Woodstock

General Information			
AQS ID:	33-009-8001	Latitude:	43.944544
Town:	Woodstock	Longitude:	-71.700772
Address:	Mirror Lake Rd.	Elevation (m):	250
County:	Grafton	Year Est.:	1989
Spatial Scale:	Regional		



Site Description

This air monitoring station is located in a rural area in the White Mountain National Forest. This structure is specifically designed for climate-controlled scientific operations. It measures approximately 8' wide by 10' long. This is a CASTNET station and DES' involvement is limited to capturing ozone data for real-time mapping purposes.

Pollutants/Parameters

Ozone - CASTNET

Recent Changes

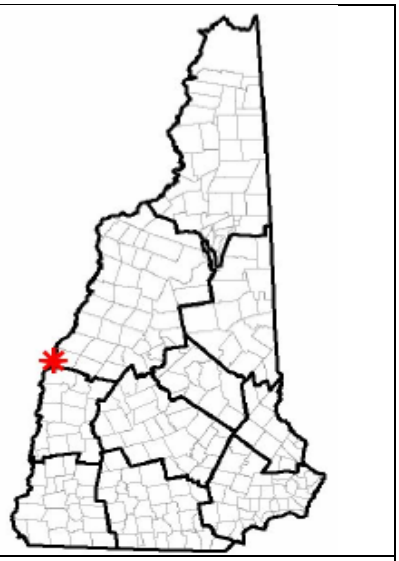
DES did not make any significant changes to this station during this review period.

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Lebanon Airport, Lebanon

General Information			
AQS ID:	33-009-0010	Latitude:	43.6296
Town:	Lebanon	Longitude:	-72.309533
Address:	Airport Road	Elevation (m):	167
County:	Grafton	Year Est.:	2005
Spatial Scale:	Neighborhood		



Site Description

This 8’ wide by 10’ long insulated trailer is located at the northeast edge of the Lebanon Municipal Airport in a commercial area. The filter based PM2.5 sampler is located on a deck on top of the trailer.

Pollutants/Parameters

Ozone - Continuous PM2.5 (BAM) - Wind Speed - Wind Direction - Temperature

Recent Changes

DES did not make any significant changes to this station during this review period.

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Green Street, Laconia

General Information			
AQS ID:	33-001-2004	Latitude:	43.566111
Town:	Laconia	Longitude:	-71.496322
Address:	Green Street	Elevation (m):	216
County:	Belknap	Year Est.:	2001
Spatial Scale:	Regional		

Site Description

This 10’ wide by 12’ long cedar clad, stick-built air monitoring station is located in an open field in a rural residential area. The filter-based PM2.5 sampler is located on a platform approximately 30m from the structure.

Pollutants/Parameters

Ozone – PM2.5 (one sample every six days) – Wind Speed – Wind Direction – Temperature - Precipitation

Recent Changes

DES did not make any significant changes to this station during this review period.

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Hazen Station, Concord

General Information			
AQS ID:	33-013-1007	Latitude:	43.218478
Town:	Concord	Longitude:	-71.514533
Address:	27 Hazen Dr.	Elevation (m):	100
County:	Merrimack	Year Est.:	2004
Spatial Scale:	Neighborhood		

Site Description

This station is located in an urban residential neighborhood and is surrounded by a large home for the elderly and several elementary schools. This air monitoring station is at the ideal location for protecting a susceptible population in Concord and measures 8' wide by 18' long. Its insulated, box-type structure is specifically designed for climate-controlled scientific functions.

Pollutants/Parameters

Ozone – Sulfur Dioxide – Temperature – Wind Speed – Wind Direction. DES also uses this station as an air monitoring laboratory and a staging area for field-ready equipment.

Recent Changes

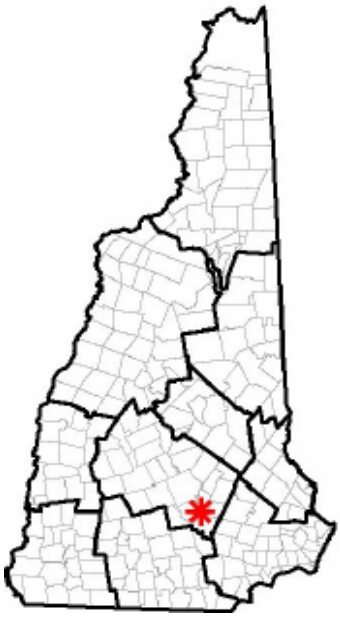
DES initiated SO2 monitoring during October 2010

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Exchange Street, Pembroke

General Information			
AQS ID:	33-013-1006	Latitude:	43.132444
Town:	Pembroke	Longitude:	-71.458270
Address:	Pleasant St.	Elevation (m):	100
County:	Merrimack	Year Est.:	2002
Spatial Scale:	Neighborhood		



Site Description

This station is located in a suburban residential area southeast of the coal burning Merrimack station power plant. It is the ideal location for improving our understanding of near-field emissions from the Merrimack Station power plant. This insulated, box-type structure is specifically designed for climate-controlled scientific functions and measures approximately 8' wide by 10' long. The filter based PM2.5 samplers are located on a deck on top of the structure.

Pollutants/Parameters

Sulfur Dioxide – PM2.5 Filter Based (one sample every three days) – PM2.5 Filter Based Audit (one sample every six days) – Temperature – Wind Speed – Wind Direction.

Recent Changes

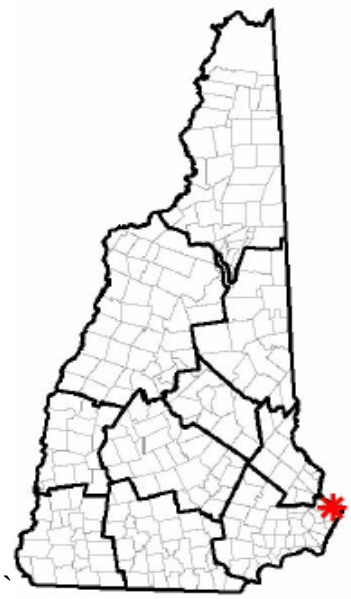
DES did not make any significant changes to this station during this review period.

Proposed/Planned Changes

Initiate PM2.5 continuous BAM monitoring
Reduce frequency of filter based runs from 1/3 to 1/6

Pierce Island, Portsmouth

General Information			
AQS ID:	33-015-0014	Latitude:	43.075367
Town:	Portsmouth	Longitude:	-70.748014
Address:	Pierce Island	Elevation (m):	4
County:	Rockingham	Year Est.:	2001
Spatial Scale:	Neighborhood		



Site Description

This station is located in an urban commercial/residential area. It is strategically position to capture air quality data from the Portsmouth Shipyard (northeast), the urban center of Portsmouth (southwest), the industrialized Piscataqua River (northwest) and ocean fetch-type events (southeast) depending on wind direction. The cedar clad, stick built shelter is approximately 10' wide by 12' long. Filter based PM2.5 samplers are located on platforms approximately 8m from the shelter.

Pollutants/Parameters

Ozone – PM2.5 Continuous (BAM) – PM10 Filter Based (one sample every six days) – PM10 Colocation (one sample every six days) – Sulfur Dioxide – Temperature – Wind Speed – Wind Direction

Recent Changes

Initiated PM10 Colocation Sampling
Reduced PM2.5 filter frequency from 1/3 to 1/12

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Seacoast Science Center, Rye

General Information			
AQS ID:	33-015-0016	Latitude:	43.045267
Town:	Rye	Longitude:	-70.713953
Address:	Seacoast Science Ctr.	Elevation (m):	10
		Year Est.:	2003
County:	Rockingham		
Spatial Scale:	Neighborhood		

Site Description

This station is located in a suburban residential neighborhood on the seacoast in direct exposure to the Atlantic Ocean. The station is located inside a modified corner of the main facility building at the Seacoast Science Center. DES established this station to measure coastal ozone episodes as well as to promote public understanding of air pollution and monitoring.

Pollutants/Parameters

Ozone - Temperature – Wind Speed – Wind Direction.

Recent Changes

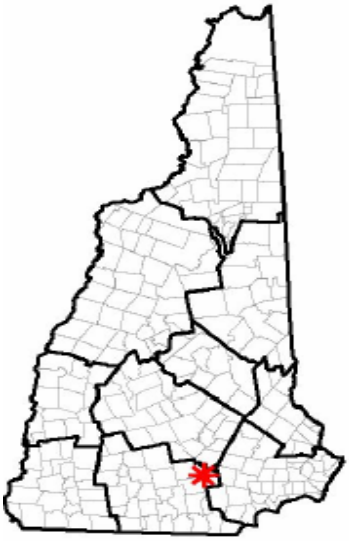
DES did not make any significant changes to this station during this review period.

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Pearl Street, Manchester

General Information			
AQS ID:	33-011-0020	Latitude:	42.995689
Town:	Manchester	Longitude:	-71.462528
Address:	Pearl Street	Elevation (m):	61
County:	Hillsborough	Year Est.:	2001
Spatial Scale:	Urban		



Site Description

This air monitoring station is located in a commercial area near the center of the city of Manchester. This construction type trailer is approximately 8' wide by 16' long. Filter based PM samplers are located on a deck on top of the trailer.

Pollutants/Parameters

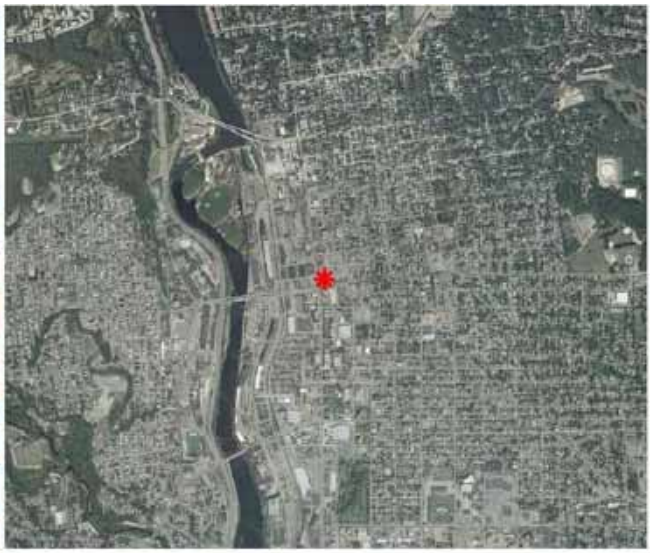
Carbon Monoxide – PM2.5 continuous (TEOM) – Sulfur Dioxide – Temperature – Wind Speed – Wind Direction

Recent Changes

Discontinued Ozone, NO2, PM10 and PM10 Colocation

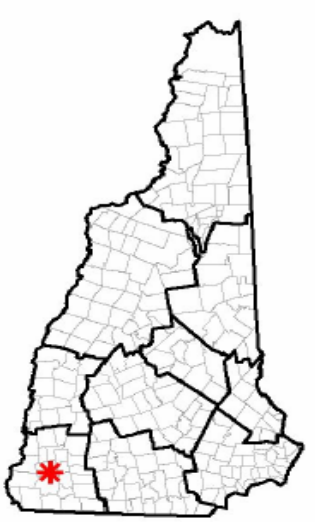
Proposed/Planned Changes

Discontinue CO, SO2, PM2.5 – effectively closing the station



Water Street, Keene

General Information			
AQS ID:	33-005-0007	Latitude:	42.930517
Town:	Keene	Longitude:	-72.272372
Address:	Water Street	Elevation (m):	145
County:	Cheshire	Year Est.:	1989
Spatial Scale:	Neighborhood		



Site Description

This 8’ wide by 10’ long air monitoring station is situated in a commercial area, close to the center of the city of Keene. The filter-based PM2.5 sampler is located on the rooftop deck.

Pollutants/Parameters

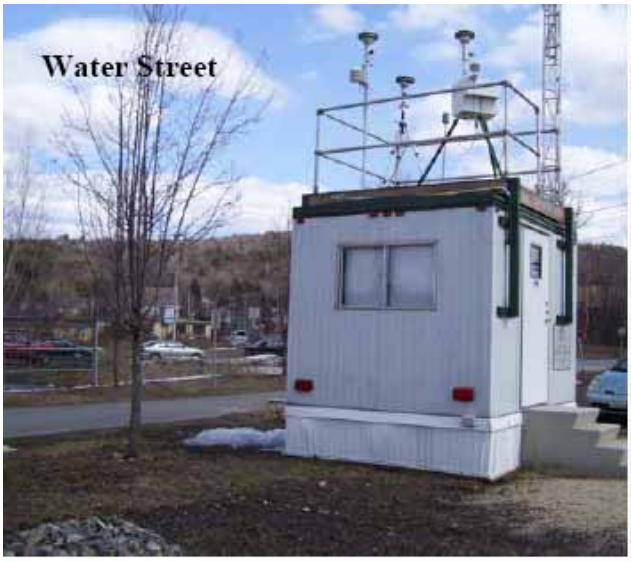
Ozone - PM2.5 Filter Based (one sample every six days) - PM2.5 Continuous (BAM) – Wind Speed - Wind Direction - Temperature

Recent Changes

DES did not make any significant changes to this station during this review period.

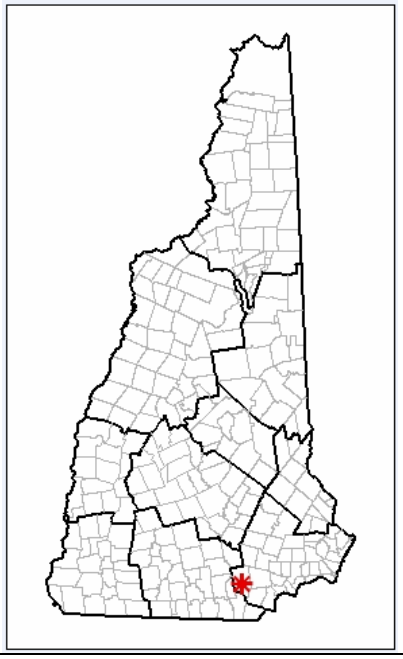
Proposed/Planned Changes

Reduce PM2.5 filter run frequency from 1/6 to 1/12



Moose Hill, Londonderry

General Information			
AQS ID:	33-015-0018	Latitude:	42.862522
Town:	Londonderry	Longitude:	-71.380153
Address:	Moose Hill Sch.	Elevation (m):	104
County:	Rockingham	Year Est.:	2009
Spatial Scale:	Neighborhood		



Site Description

Proposed:

This 12’ wide by 16’ long wood clad, stick-built air monitoring station is located in a very open field in the heart of suburban New Hampshire, approximately halfway between the state’s two largest cities (Manchester and Nashua). It has virtually zero local interferences from nearby pollution sources or obstructions, making it an ideal location to measure regional air quality. Filter-based PM2.5 samplers are located on platforms approximately 15 m from the structure.

Pollutants/Parameters

For NCore: PM2.5 Continuous and Filter based – IMPROVE – PM Course – Nitrogen Oxides – Ozone – Sulfur Dioxide (trace) – Carbon Monoxide (trace) – Temperature – Wind Speed – Wind Direction – Relative Humidity.

Recent Changes

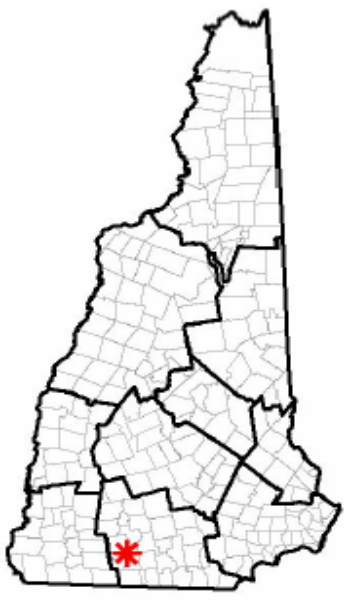
New Station started up on January 1, 2011

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Pack Monadnock Mountain

General Information			
AQS ID:	33-011-5001	Latitude:	42.861901
Town:	Peterborough	Longitude:	-71.878613
Address:	Miller State Park	Elevation (m):	694.6
		Year Est.:	2002
County:	Hillsborough		
Spatial Scale:	Regional		



Site Description

This station is located in an elevated forest environment on the summit of Pack Monadnock Mountain. This stick framed, 15' by 12' structure that houses the air monitoring equipment is historically significant, having been built by the Civilian Conservation Corps. The location of this station is scientifically significant because it is the highest accessible peak that lies directly within the primary air pollution transport corridor into the central part of the state. This allows this site to be the ideal location for improving our understanding of air pollution transport into the heavily populated Merrimack Valley and beyond. The Filter based PM2.5 sampler is located on a deck on top of the structure. UNH also monitors numerous parameters from this site.

Pollutants/Parameters

For NCore: PM2.5 Continuous and Filter based – IMPROVE – PM Course – Nitrogen Oxides – Ozone – Sulfur Dioxide (trace) – Carbon Monoxide (trace) – Temperature – Wind Speed – Wind Direction – Relative Humidity.

Recent Changes

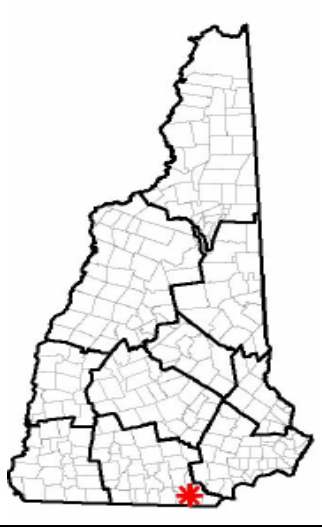
DES is currently constructing a new station, scheduled for completion in September 2011. All NCore parameters were operational starting January 1, 2011.

Proposed/Planned Changes

Please refer to the Future Plans Section of this Annual Review Plan for specifics on future plans for this station.

Crown Street, Nashua

General Information			
AQS ID:	33-011-1015	Latitude:	42.762028
Town:	Nashua	Longitude:	-71.444572
Address:	Crown Street	Elevation (m):	33.5
County:	Hillsborough	Year Est.:	2005
Spatial Scale:	Urban		



Site Description

This air monitoring station is located in an urban commercial and residential neighborhood. It is located approximately 30 meters from the Merrimack River and consists of a small fenced-in platform approximately 12’ long by 8’ wide.

Pollutants/Parameters

PM2.5 Filter Based (one sample every six days)

Recent Changes

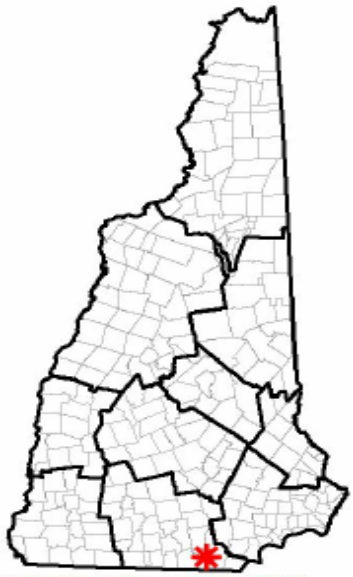
DES decreased the PM2.5 filter based sampling frequency from 1/3 to 1/6.

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.

Gilson Road, Nashua

General Information			
AQS ID:	33-011-1011	Latitude:	42.718656
Town:	Nashua	Longitude:	-71.522428
Address:	57 Gilson Rd.	Elevation (m):	59
County:	Hillsborough	Year Est.:	2003
Spatial Scale:	Neighborhood		



Site Description

This air monitoring station is located in a suburban residential neighborhood near a Superfund site. DES requires two 8' wide by 16' long trailers to accommodate the equipment needed to measure ambient air parameters, including PAMS. DES collects meteorological data from a tower located on an adjacent building.

Pollutants/Parameters

Ozone - Nitrogen Dioxide – PAMS – Temperature – Wind Speed – Wind Direction – Relative Humidity

Recent Changes

DES did not make any significant changes to this station during this review period.

Proposed/Planned Changes

DES is not planning any significant changes to this station into the foreseeable future.